RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/539.946
Source:	P4-110
Date Processed by STIC:	6/30/05
•	

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 06/30/2005
PATENT APPLICATION: US/10/539,946 TIME: 09:01:28

Input Set : A:\pct-kr05-00457.txt

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1 <110> APPLICANT: MEDEXGEN CO., LTD
      3 <120> TITLE OF INVENTION: Pharmaceutical Composition for treatment of Transplantation
      4 Rejection comprising Concatameric Immunoadhesin
C--> 6 <140> CURRENT APPLICATION NUMBER: US/10/539,946
C--> 6 <141> CURRENT FILING DATE: 2005-06-16
W--> 0 <130> FILE REFERENCE:
     6 <160> NUMBER OF SEQ ID NOS: 26
     8 <170> SOFTWARE: KopatentIn 1.71
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     11 <211> LENGTH: 31
     12 <212> TYPE: DNA
     13 <213> ORGANISM: Artificial Sequence
    15 <220> FEATURE:
    16 <223> OTHER INFORMATION: primer, oligo-LAG3-F-EcoRI
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    24 <211> LENGTH: 28
    25 <212> TYPE: DNA
    26 <213> ORGANISM: Artificial Sequence
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    32 <400> SEQUENCE: 2
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    37 <211> LENGTH: 21
    38 <212> TYPE: DNA
    39 <213> ORGANISM: Artificial Sequence
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    45 <400> SEQUENCE: 3
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    50 <211> LENGTH: 30
    51 <212> TYPE: DNA
    52 <213> ORGANISM: Artificial Sequence
    54 <220> FEATURE:
    55 <223> OTHER INFORMATION: primer, oligo-LAG3-R-SpeI
    58 <400> SEQUENCE: 4
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    63 <211> LENGTH: 28
    64 <212> TYPE: DNA
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RAW SEQUENCE LISTING DATE: 06/30/2005
PATENT APPLICATION: US/10/539,946 TIME: 09:01:28

Input Set : A:\pct-kr05-00457.txt

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67 <220> FEATURE:
68 <223> OTHER INFORMATION: primer, hlgG-F-SpeI
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76 <211> LENGTH: 34
77 <212> TYPE: DNA
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80 <220> FEATURE:
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89 <211> LENGTH: 1503
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95 <222'> LOCATION: (1)..(66)
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99 <222> LOCATION: (1)..(1500)
100 <223> OTHER INFORMATION: LAG3/Fc
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105 Met Trp Glu Ala Gln Phe Leu Gly Leu Leu Phe Leu Gln Pro Leu Trp
106
108 gtg gct cca gtg aag cct ctc cag cca ggg gct gag gtc ccg gtg gtg
                                                                               96
109 Val Ala Pro Val Lys Pro Leu Gln Pro Gly Ala Glu Val Pro Val Val
                                     25
112 tgg gcc cag gag ggg gct cct gcc cag ctc ccc tgc agc ccc aca atc
                                                                              144
113 Trp Ala Gln Glu Gly Ala Pro Ala Gln Leu Pro Cys Ser Pro Thr Ile
114
116 ccc ctc cag gat ctc agc ctt ctg cga aga gca ggg gtc act tgg cag
                                                                              192
117 Pro Leu Gln Asp Leu Ser Leu Leu Arg Arg Ala Gly Val Thr Trp Gln
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120 cat cag cca gac agt ggc ccg ccc gct gcc ccc ggc cat ccc ctg
                                                                              240
121 His Gln Pro Asp Ser Gly Pro Pro Ala Ala Pro Gly His Pro Leu
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124 gcc ccc ggc cct cac ccg gcg gcg ccc tcc tcc tgg ggg ccc agg ccc
                                                                              288
125 Ala Pro Gly Pro His Pro Ala Ala Pro Ser Ser Trp Gly Pro Arg Pro
126
                     85
128 cgc cgc tac acg gtg ctg agc gtg ggt ccc gga ggc ctg cgc agc ggg
                                                                              336
129 Arg Arg Tyr Thr Val Leu Ser Val Gly Pro Gly Gly Leu Arg Ser Gly
                                    105
132 agg ctg ccc ctg cag ccc cgc gtc cag ctg gat gag cgc ggc cgg cag
                                                                              384
133 Arg Leu Pro Leu Gln Pro Arg Val Gln Leu Asp Glu Arg Gly Arg Gln
134
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Input Set : A:\pct-kr05-00457.txt

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137	Arg	Gly	Asp	Phe	Ser	Leu	Trp	Leu	Arg	Pro	Ala	Arg	Arg	Ala	Asp	Ala	
138		130					135					140					
							gtg										480
141	Gly	Glu	Tyr	Arg	Ala	Ala	Val	His	Leu	Arg	Asp	Arg	Ala	Leu	Ser	Cys	
142	145					150					155					160	
144	cgc	ctc	cgt	ctg	cgc	ctg	ggc	cag	gcc	tcg	atg	act	gcc	agc	CCC	cca	528
145	Arg	Leu	Arg	Leu	Arg	Leu	Gly	Gln	Ala	Ser	Met	Thr	Ala	Ser	Pro	Pro	
146					165					170					175		
148	gga	tct	ctc	aga	gcc	tcc	gac	tgg	gtc	att	ttg	aac	tgc	tcc	ttc	agc	576
149	Gly	Ser	Leu	Arg	Ala	Ser	Asp	Trp	Val	Ile	Leu	Asn	Cys	Ser	Phe	Ser	
150				180					185					190			
152	cgc	cct	gac	cgc	cca	gcc	tct	gtg	cat	tgg	ttc	cgg	aac	cgg	ggc	cag	624
153	Arg	Pro	Asp	Arg	Pro	Ala	Ser	Val	His	Trp	Phe	Arg	Asn	Arg	Gly	Gln	
154			195					200					205		•		
156	ggc	cga	gtc	cct	gtc	cgg	gag	tcc	CCC	cat	cac	cac	tta	gcg	gaa	agc	672
157	Gly	Arg	Val	Pro	Val	Arg	Glu	Ser	Pro	His	His	His	Leu	Ala	Glu	Ser	
158		210					215					220					
160	ttc	ctc	ttc	ctg	CCC	caa	gtc	agc	CCC	atg	gac	tct	ggg	CCC	tgg	ggc	· 720
161	Phe	Leu	Phe	Leu	Pro	Gln	Val	Ser	Pro	Met	Asp	Ser	Gly	Pro	Trp	Gly	
162	225					230					235					240	
164	tgc	atc	ctc	acc	tac	aga	gat	ggc	ttc	aac	gtc	tcc	atc	atg	tat	aac	768
165	Cys	Ile	Leu	Thr	Tyr	Arg	Asp	Gly	Phe	Asn	Val	Ser	Ile	Met	Tyr	Asn	
166					245					250					255		
168	ctc	act	gtt	ctg	ggt	ctg	gag	ccc	cca	act	agt	gca	gag	ccc	aaa	tct	816
169	Leu	Thr	Val	Leu	Gly	Leu	Glu	Pro	Pro	Thr	Ser	Ala	Glu	Pro	Lys	Ser	
170				260					265					270			
172	tgt	gac	aaa	act	cac	aca	tgc	cca	ccg	tgc	cca	gca	cct	gaa	ctc	ctg	864
173	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	
174			275					280				•	285				
176	ggg	gga	ccg	tca	gtc	ttc	ctc	ttc	CCC	cca	aaa	CCC	aag	gac	acc	ctc	912
177	Gly	Gly	${\tt Pro}$	Ser	Val	Phe	Leu	Phe	Pro	${\tt Pro}$	Lys	Pro	Lys	Asp	Thr	Leu	
178		290					295					300					
180	atg	atc	tcc	cgg	acc	cct	gag	gtc	aca	tgc	gtg	gtg	gtg	gac	gtg	agc	960
181	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	
182	305					310					315					320	
184	cac	gaa	gac	cct	gag	gtc	aag	ttc	aac	tgg	tac	gtg	gac	ggc	gtg	gag	1008
185	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	
186					325					330		•			335		
188	gtg	cat	aat	gcc	aag	aca	aag	ccg	cgg	gag	gag	cag	tac	aac	agc	acg	1056
189	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	
190				340					345					350			
192	tac	cgt	gtg	gtc	agc	gtc	ctc	acc	gtc	ctg	cac	cag	gac	tgg	ctg	aat	1104
193	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	
194			355					360					365				
196	ggc	aag	gag	tac	aag	tgc	aag	gtc	tcc	aac	aaa	gcc	ctc	cca	gcc	ccc	1152
197	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	
198	_	370					375				_	380					•
200	atc	gag	aaa	acc	atc	tcc	aaa	gcc	aaa	ggg	cag	CCC	cga	gaa	cca	cag	1200
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PATENT APPLICATION: US/10/539,946 TIME: 09:01:28

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	gtg																1248
	Val	Tyr	Thr	Leu		Pro	Ser	Arg	GIu		Met	Thr	Lys	Asn		Val	
206		_ • -			405					410					415		
	agc																1296
	Ser	Leu	Thr		Leu	vaı	ьуѕ	GIY		Tyr	Pro	ser	Asp		Ата	vaı	
210				420	224				425			.		430			1344
	gag																1344
213	Glu	пр	435	ser	ASII	GIY	GIII	440	GIU	ASII	ASII	ıyı	ьуs 445	THE	Inr	PIO	
	ccc	ata		as a	taa	G2G	~~~		++~	++ a	ata	+ - +	_	224	ata	200	1202
	Pro		_	_		_							_	_			1392
218		450	ЦСи	тэр	261	App	455	Ser	FILE	FILE	neu	460	PET	Буб	пеп	1111	
	gtg		aad	agg	agg	taa		cad	aaa	aac	ata		tca	tac	tac	ata	1440
	Val																1440
	465	пор	Lys	JCI	m 9	470	0111	GIII	GLY	ASII	475	rne	DCI	Cys	561	480	
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	Met				_					_	_	_	_			_	1400
226			0		485	*****	11011	1115	- 7 -	490	01	טעם	DCI	200	495	ncu.	
	tcc	cca	aat	aaa	100	te	ra .			100					473		1503
	Ser					•	, ~										1505
230			1	500													
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Input Set : A:\pct-kr05-00457.txt

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272 Gly Ser Leu Arg Ala Ser Asp Trp Val Ile Leu Asn Cys Ser Phe Ser
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278 Gly Arg Val Pro Val Arg Glu Ser Pro His His Leu Ala Glu Ser
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281 Phe Leu Phe Leu Pro Gln Val Ser Pro Met Asp Ser Gly Pro Trp Gly
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                                            235
284 Cys Ile Leu Thr Tyr Arg Asp Gly Phe Asn Val Ser Ile Met Tyr Asn
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287 Leu Thr Val Leu Gly Leu Glu Pro Pro Thr Ser Ala Glu Pro Lys Ser
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290 Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
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293 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
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                           295
296 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
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299 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
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302 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
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305 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
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308 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
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311 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
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                                            395
314 Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
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                                        410
317 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
                                    425
320 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
          435
                               440
323 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
                           455
326 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
                       470
                                        475
329 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
                   485
                                       490
332 Ser Pro Gly Lys
333
               500
336 <210> SEQ ID NO: 9
337 <211> LENGTH: 2211
338 <212> TYPE: DNA
339 <213> ORGANISM: Homo sapiens
341 <220> FEATURE:
342 <221> NAME/KEY: sig_peptide
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VERIFICATION SUMMARY

DATE: 06/30/2005

PATENT APPLICATION: US/10/539,946

TIME: 09:01:29

Input Set : A:\pct-kr05-00457.txt

Output Set: N:\CRF4\06302005\J539946.raw

 $L:6\ M:270\ C:$ Current Application Number differs, Replaced Current Application No

L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:0 M:201 W: Mandatory field data missing, <130> FILE REFERENCE